

# Clinical Endocrinology

Edited by  
R. N. Clayton and  
J. A. H. Wass

Editorial Assistant  
W. F. Kelly

Volume 35  
1991

BLACKWELL SCIENTIFIC PUBLICATIONS  
OXFORD LONDON EDINBURGH BOSTON  
MELBOURNE PARIS BERLIN VIENNA

© 1991 Blackwell Scientific Publications Ltd. Authorization to photocopy for internal or personal use or the internal or personal use of specific clients is granted by Blackwell Scientific Publications Ltd for libraries and other users registered with the Copyright Clearance Center (CCC) Transactional Reporting Service, provided that the base fee of \$05.00 per copy is paid directly to the CCC, 27 Congress Street, Salem, MA 01970, USA. This consent does not extend to other kinds of copying, such as copying for general distribution for advertising or promotional purposes, for creating new collective works or for resale. Special requests should be addressed to the Editor. 0300-0664/91/\$05.00.

Blackwell Scientific Publications  
Oxford London Edinburgh Boston  
Melbourne Paris Berlin Vienna

ISSN 0300-0664

Printed in Great Britain at The Alden Press, Oxford

## Contents

### Volume 35, Number 1, July 1991

- 1 **Commentary** The use of anti-androgens in the treatment of hirsutism: T. J. MCKENNA
- 5 Cyproterone acetate for severe hirsutism: results of a double-blind dose ranging study: J. H. BARTH, C. A. CHERRY, F. WOJNAROWSKA and R. P. R. DAWBER
- 11 **Current therapy** The management of obesity: R. T. JUNG and P. CHONG
- 21 Human plasma melatonin and urinary 6-sulphatoxy melatonin: studies in natural annual photoperiod and in extended darkness: C. D. MATTHEWS, M. V. GUERIN and X. WANG
- 29 Disturbance of osmoregulated thirst and vasopressin secretion in thyrotoxicosis: J. N. HARVEY, D. K. NAGI, P. H. BAYLIS, R. WILKINSON and P. E. BELCHETZ
- 35 Stimulation and suppression of intact parathyroid hormone (PTH1-84) in normal subjects and hyperparathyroid patients: P. LIPS, J. C. NETELENBOS, L. VAN DOORN, W. H. L. HACKENG and C. J. M. LIPS
- 41 Prevalence of thyroid deficiency in pregnant women: R. Z. KLEIN, J. E. HADDOW, J. D. FAIX, R. S. BROWN, R. J. HERMOS, A. PULKKINEN and M. L. MITCHELL
- 47 Critically ill patients have high basal growth hormone levels with attenuated oscillatory activity associated with low levels of insulin-like growth factor-I: R. ROSS, J. MIELL, E. FREEMAN, J. JONES, D. MATTHEWS, M. PREECE and C. BUCHANAN
- 55 The use of venous catheterization in the diagnosis and localization of bilateral pheochromocytomas: E. C. NEWBOULD, G. A. ROSS, J. E. DACIE, P. M. G. BOULOUX, G. M. BESSER and A. GROSSMAN
- 61 Nocturnal melatonin secretion in thyroid disease and in obesity: S. RÖJDMARK, A. BERG, S. RÖSSNER and L. WETTERBERG
- 67 Changes in circulating thyroid hormone levels and systolic time intervals in acute hypothyroidism: D. E. PRICE, B. P. O'MALLEY, B. NORTHOVER and F. D. ROSENTHAL
- 71 Control of immunoactive inhibin production by human granulosa cells: S. G. HILLIER, E. J. WICKINGS, P. I. ILLINGWORTH, E. L. YONG, L. E. REICHERT, D. T. BAIRD and A. S. MCNEILLY

- 79 Glucocorticoid receptors in lymphocytes in anorexia nervosa: E. GIRARDIN, M. GAROSCIO-CHOLET, H. DECHAUD, L. LEJEUNE, E. CARRIER, J. TOURNIAIRE and M. PUGEAT
- 85 Cholinergic blockade with pirenzepine induces dose-related reduction in glucose and insulin responses to a mixed meal in normal subjects and non-insulin dependent diabetics: J. S. BEVAN, JAMAL ARA, M. D. PAGE, M. F. SCANLON and J. R. PETERS
- 93 Association between autoimmune thyroid disease and Familial Alzheimer's disease: D. L. EWINS, M. N. ROSSOR, J. BUTLER, P. K. ROQUES, M. J. MULLAN and A. M. MCGREGOR
- 97 An association between hypothalamic-pituitary dysfunction and peripheral endocrine function in extreme obesity: J. U. WEAVER, K. NOONAN and P. G. KOPELMAN

### 103 Notices

### Volume 35, Number 2, August 1991

- 105 **Editorial**
- 107 **Review** Cytokines and endocrine function: an interaction between the immune and neuroendocrine systems: HIROO IMURA, JUN-ICHI FUKATA and TORU MORI
- 117 **Commentary** Ovarian response to gonadotrophins: effects of growth hormone: P. A. FOWLER and A. TEMPLETON
- 119 Ovarian sensitization to gonadotrophins by human growth hormone. Persistence of the effect beyond the treated cycle: H. G. BURGER, G. T. KOVACS, D. M. POLSON, J. MCDONALD, P. I. MCCLLOUD, M. HARROP, P. COLMAN and D. L. HEALY
- 123 TRIAC (3,5,3'-triiodothyroacetic acid) has parallel effects at the pituitary and peripheral tissue levels in thyroid cancer patients treated with L-thyroxine: C. MECHELANY, M. SCHLUMBERGER, C. CHALLETON, E. COMOY and C. PARMENTIER
- 129 Clonidine pretreatment modifies the growth hormone secretory pattern induced by short-term continuous GRF infusion in normal man: L. LIMA, V. ARCE, M. J. DIAZ, J. A. F. TRESGUERRES and J. DEVESA

- 137 GH response to growth hormone releasing hormone and hypoglycaemia is unaltered by high endogenous plasma calcitonin levels in patients with medullary thyroid carcinoma: V. POPOVIC, D. MICIC, S. DAMJANOVIC, M. DURBABA, M. PETAKOV, S. ZORIC, M. DJUROVIC, D. MANOJLOVIC and J. MICIC
- 141 Effect of pyridostigmine and pirenzepine on GH responses to GHRH in hyperthyroid patients: R. VALCAVI, C. DIEGUEZ, M. ZINI, M. D. PAGE, C. DOTTI, L. PORTIOLI and M. F. SCANLON
- 145 Biochemical and hormonal changes induced by one week of administration of rIGF-I to patients with Laron type dwarfism: Z. LARON, B. KLINGER, L. T. JENSEN and B. ERSTER
- 151 Cell kinetics in parathyroid adenomas: evidence for decline in rates of cell birth and tumour growth, assuming clonal origin: A. M. PARFITT, D. WILLGOSS, J. JACOBI and H. M. LLOYD
- 159 Effects of hypo or hyper-thyroidism on growth hormone-binding protein: T. AMIT, P. HERTZ, S. ISH-SHALOM, R. LOTAN, R. LUBOSHITZKI, M. B. YODIM and Z. HOCHBERG
- 163 The influence of ketoconazole on human adrenal steroidogenesis: incubation studies with tissue slices: D. ENGELHARDT, M. M. WEBER, T. MIKSCH, F. ABEDINPOUR and C. JASPERS
- 169 Short and long-term responses to metyrapone in the medical management of 91 patients with Cushing's syndrome: J. A. VERHELST, P. J. TRAINER, T. A. HOWLETT, L. PERRY, L. H. REES, A. B. GROSSMAN, J. A. H. WASS and G. M. BESSER
- 179 Laron-type dwarfism with apparently normal high affinity serum growth hormone-binding protein: C. R. BUCHANAN, H. G. MAHESHWARI, M. R. NORMAN, D. J. MORRELL and M. A. PREECE
- 187 Letter to the Editors
- 189 Book reviews
- 191 Notices
- 219 Commentary Thirst and vasopressin: J. S. JENKINS
- 221 Osmotic and non-osmotic regulation of thirst and vasopressin secretion in patients with compulsive water drinking: C. J. THOMPSON, C. R. W. EDWARDS and P. H. BAYLIS
- 229 The effect of drinking on natriuretic peptide, vasopressin and thirst appreciation in hyperosmolar man: L. M. BURRELL, H. J. LAMBERT and P. H. BAYLIS
- 235 Influence of thyroxine treatment on thyroid size and anti-thyroid peroxidase antibodies in Hashimoto's thyroiditis: L. HEGEDÜS, J. M. HANSEN, U. FELDT-RASMUSSEN, B. M. HANSEN and M. HØIER-MADSEN
- 239 Pituitary macroadenomas associated with hyperprolactinaemia: immunocytochemical and in-situ hybridization studies: A. M. MCNICOL, E. WALKER, M. A. FARQUHARSON and G. M. TEASDALE
- 245 A distribution method for analysing the baseline of pulsatile endocrine signals as exemplified by 24-hour growth hormone profiles: D. R. MATTHEWS, P. C. HINDMARSH, P. J. PRINGLE and C. G. D. BROOK
- 253 Correlation of plasma insulin and insulin-like growth factor-I with indices of androgen transport and metabolism in women with polycystic ovary syndrome: P. S. SHARP, D. S. KIDDY, M. J. REED, V. ANYAOKU, D. G. JOHNSTON and S. FRANKS
- 259 The short Synacthen test in acute hospital admissions: S. R. PATEL, C. SELBY and W. J. JEFFCOATE
- 263 Long-term follow-up of hypothalamic-pituitary function in patients with transsphenoidal pituitary herniation and midfacial anomalies: F. M. ELLYIN, A. POTCHYNOK and CHUNG SONG
- 267 Pattern of secretion of bioactive and immunoreactive gonadotrophins in normal pubertal children: D. B. DUNGER, A. K. VILLA, D. R. MATTHEWS, J. A. EDGE, J. JONES, C. ROTHWELL, M. A. PREECE and W. R. ROBERTSON
- 277 Book reviews
- 279 Notices

# Volume 35, Number 3, September 1991

- 193 Review Bioactive gonadotrophin secretion in man: A. TSATSOUKIS, S. M. SHALET and W. R. ROBERTSON
- 207 Current therapy Iodine-131 treatment of hyperthyroidism: current issues: J. J. FARRAR and A. D. TOFT
- 213 Case reports Isolated ACTH deficiency: S. M. ORME and P. E. BELCHETZ

# Volume 35, Number 4, October 1991

- 281 Review 11 $\beta$ -Hydroxysteroid dehydrogenase and enzyme-mediated receptor protection: Life after liquorice?: B. R. WALKER and C. R. W. EDWARDS

- 291 **Commentary** Growth hormone-binding proteins:  
M. WALLIS
- 295 Effects of sex and age on serum GH binding protein levels in normal adults: N. HATTORI, H. KURAHACHI, K. IKEKUBO, T. ISHIHARA, K. MORIDERA, M. HINO, Y. SAIKI and H. IMURA
- 299 Antisperm antibodies in the polyglandular autoimmune (PGA) syndrome type I: response to cyclical steroid therapy: A. TSATSOULIS and S. M. SHALET
- 305 Cholesterol fractions and apolipoproteins during endometriosis treatment by a gonadotrophin releasing hormone (GnRH) agonist implant or by danazol: L. LEMAY, N.-A. BRIDEAU, J.-C. FOREST, S. DODIN and R. MAHEUX
- 311 Plasma corticotrophin releasing factor and vasopressin responses to exercise in normal man: G. A. WITTERT, D. E. STEWART, M. P. GRAVES, M. J. ELLIS, M. J. EVANS, J. E. WELLS, R. A. DONALD and E. A. ESPINER
- 319 The secretory granule peptides 7B2 and CCB are sensitive biochemical markers of neuro-endocrine bronchial tumours in man: D. VIEAU, A. ROJAS-MIRANDA, J. M. VERLEY, F. LENNE and X. BERTAGNA
- 327 Serum and follicular fluid insulin like growth factors I and II during growth hormone co-treatment for in-vitro fertilization and embryo transfer: E. J. OWEN, T. TORRESANI, C. WEST, B. A. MASON and H. S. JACOBS
- 335 Treatment with biosynthetic growth hormone of short thalassaemic patients with impaired growth hormone secretion: M. SCACCHI, L. DANESI, M. DE MARTIN, A. DUBINI, L. FORNI, A. MASALA, D. GALLISAI, C. BURRAI, S. TERZOLI, C. BOFFA, C. MARZANO and F. CAVAGNINI
- 341 Inhibin and age in men: J. A. MACNAUGHTON, M. L. BANGAH, P. I. MCCLOUD and H. G. BURGER
- 347 Ketoconazole treatment in Cushing's syndrome: experience in 34 patients: N. SONINO, M. BOSCARO, A. PAOLETTA, F. MANTERO and D. ZILLOTTO
- 353 The interaction of growth hormone releasing hormone and somatostatin in the generation of a GH pulse: P. C. HINDMARSH, C. E. BRAIN, I. C. A. F. ROBINSON, D. R. MATTHEWS and C. G. D. BROOK
- 361 Levels of GH binding activity, IGFBP-I, insulin, blood glucose and cortisol in intensive care patients: R. J. M. ROSS, J. P. MIELL, J. M. P. HOLLY, H. MAHESHWARI, M. NORMAN, A. F. ABDULLA and C. R. BUCHANAN
- 369  $\beta$ -Endorphin and adrenocortical function in obesity: P. M. J. ZELISSEN, H. P. F. KOPPESCHAAR, D. W. ERKELENS and J. H. H. THIJSEN
- 373 **Letter to the Editors**
- 375 **Book reviews**
- 377 **Notices**
- Volume 35, Number 5, November 1991
- 379 **Review** Radiation oncogenesis in relation to the treatment of pituitary tumours: A. JONES
- 399 **Commentary** Gonadotrophin Surge Attenuating Factor: a missing link in the control of LH secretion?: A. H. BALEN and H. S. JACOBS
- 403 Follicle stimulating hormone stimulates the production of gonadotrophin surge attenuating factor (GnSAF) *in vivo*: I. E. MESSINIS, P. HIRSCH and A. A. TEMPLETON
- 409 The effect of subcutaneous injection site on absorption of human growth hormone: abdomen versus thigh: S. A. BESHYAH, V. ANYAOKU, R. NITHITHYANATHAN, P. SHARP and D. G. JOHNSTON
- 413 The assay of urinary growth hormone in normal and acromegalic adults: A. J. EVANS, D. S. WILLIS and P. J. WOOD
- 419 Meningitis as a late complication of surgically and medically treated pituitary adenoma: T. M. FIAD and T. J. MCKENNA
- 423 The effect of a highly specific serotonin agonist on osmoregulated vasopressin secretion in healthy man: C. M. FAULL, P. ROOKE and P. H. BAYLIS
- 431 Correlations between mean LH levels and LH pulse characteristics: differences between normal and anovulatory women: A. BENNET, J. CL. LACAZE, PH. CARON, R. BERRADA, P. BARBE and J. P. LOUVET
- 439 Rapid preoperative preparation in hyperthyroidism: A. BAEZA, J. AGUAYO, M. BARRIA and G. PINEDA
- 443 The effect of thyroxine on small intestinal motility in the elderly: Q. RAHMAN, N. Y. HABOUBI, P. R. HUDSON, G. S. LEE and I. U. SHAH
- 447 Changes in concentrations of cortisol, dehydroepiandrosterone sulphate and progesterone in fetal and maternal serum during pregnancy: A. DONALDSON, U. NICOLINI, E. K. SYMES, C. H. RODECK and Y. TANNIRANDORN
- 453 **Book reviews**
- 454 **Notices**

## Volume 35, Number 6, December 1991

- 455 **Review** Dopamine, the D2 receptor and pituitary tumours: D. F. WOOD, J. M. JOHNSTON and D. G. JOHNSTON
- 467 **Commentary** Growth hormone and adult bone remodelling: A. M. PARFITT
- 471 The effect of growth hormone (GH) therapy on urinary pyridinoline cross-links in GH-deficient adults: A. SCHLEMMER, J. S. JOHANSEN, S. A. PEDERSEN, J. O. L. JØRGENSEN, C. HASSAGER and C. CHRISTIANSEN
- 477 Influence of sodium valproate on late follicular phase pulsatile LH secretion in normal women: J. LADO ABEAL, J. CABEZAS AGRICOLA, J. M. PAZ CARREIRA and J. CABEZAS-CERRATO
- 485 Corticosteroid-induced growth hormone secretion in normal and obese subjects: C. MURUAIS, F. CORDIDO, M. J. MORALES, F. F. CASANUEVA and C. DIÉGUEZ
- 491 Effects of pyridostigmine on spontaneous and growth hormone-releasing hormone stimulated growth hormone secretion in children on daily glucocorticoid therapy after liver transplantation: A. GIUSTINA, A. GIRELLI, D. ALBERTI, S. BOSSONI, F. BUZI, M. DOGA, M. SCHETTINO and W. B. WEHRENBURG
- 499 Effects of ambient glycaemic state on growth hormone responsiveness in insulin-dependent diabetes: I. S. ISMAIL, M. F. SCANLON and J. R. PETERS
- 505 Naloxone does not modify fenfluramine-induced prolactin increase in obese patients: G. F. ARGENTIO, G. P. BERNINI, M. S. VIVALDI, D. DEL CORSO, R. SANTONI and F. FRANCHI
- 509 Insulin secretion, insulin sensitivity and glucose-mediated glucose disposal in Cushing's disease: a minimal model analysis: R. PAGE, M. BOOLELL, A. KALFAS, S. SAWYER, R. PESTELL, G. WARD and F. ALFORD
- 519 Serum thyroglobulin measurements in thyroid cancer: valuation of 'false' positive results: E. G. BLACK and M. C. SHEPPARD
- 521 Heterogeneous size of the parathyroid glands in familial multiple endocrine neoplasia type 1: S. J. MARX, J. MENCZEL, G. CAMPBELL, G. D. AURBACH, A. M. SPIEGEL and J. A. NORTON
- 527 Nephrogenous cyclic AMP in primary hepatocellular carcinoma patients with or without hypercalcaemia: N. S. PANESAR, K. M. AU, N. W. Y. LEUNG, C. C. SHEK and R. SWAMINATHAN
- 533 Androgen dependent stimulation of aromatase activity in genital skin fibroblasts from normals and patients with androgen insensitivity: S. C. STILLMAN, B. A. J. EVANS and I. A. HUGHES
- 539 **Rapid communication** A 64 kDa membrane antigen is a recurrent epitope for natural autoantibodies in patients with Graves' thyroid and ophthalmic disease: D. L. KENDLER, J. ROOTMAN, G. K. HUBER and T. F. DAVIES
- 549 Recommendations for a Revised Nomenclature of Thyroid Autoantigens and Autoantibodies
- 551 **Book reviews**
- 555 **Notices**
- 556 **Referees**
- 557 **Author index**
- 563 **Subject index**

